

# Conflict is Rooted in Unmet Expectations

## **Multiple-Choice Quiz**

"You Could Make These in 1988. You Must Have ...."

- Lost the recipe
- Never had the total recipe
- Put new demands on the old recipe
- Changed the equipment
- All of the above

P = 3P

PREVENTION =

PRODUCT

+ Performance

+ PROFIT

## Things We Can Do

#### **Product**

- Emphasize margins of safety (robustness)
- Eliminate undesirable conformances
- Enhance acceptance criteria

### **Performance**

Quarterly executive program reviews

### **Profit**

- Accept ≥ 10% profit
- Mitigate "Liar's Poker" competitions

# What is Margin of Safety?

Margin of Safety = 
$$1 - \frac{\text{What You Apply}}{\text{What You Can Stand}}$$

or

$$M.S. = 1 - \frac{Load}{Allowable}$$

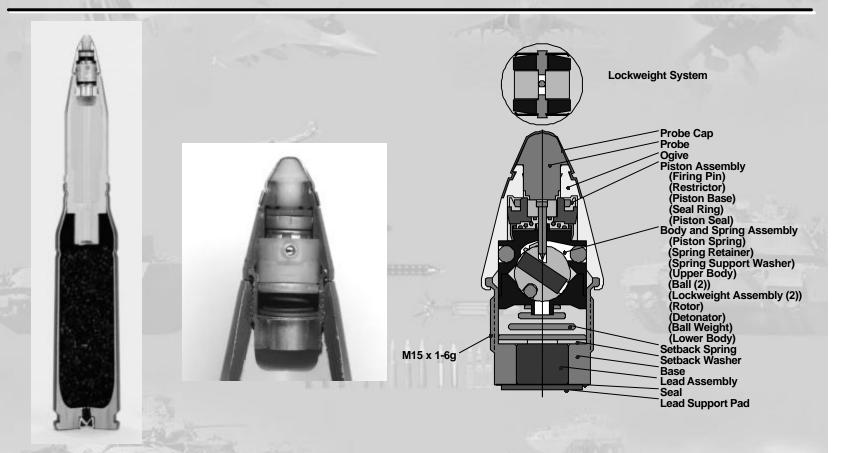
## What is an Undesirable Conformance?

- Examples
  - "Out-of-family" variation
  - Acceptable test failures
  - Thin margin of safety

# The Vital Signs Don't Always Tell The Whole Story

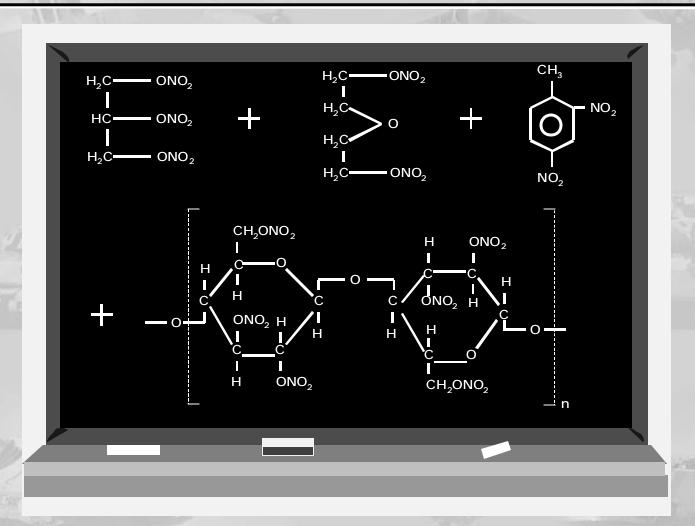
- Acceptance criteria are somewhat analogous to vital signs
  - We need to be flexible to add/subtract or modify as the technology advancements dictate
- Averaging may mask some potential issues
- Ammunition is not a commodity

## Conventional Ammo Ain't So Dumb!



M792 HEI-T 25mm Round with M758 Mechanical Fuze

# Simple Gunpowder???



# **Executive Program Reviews for Performance**

- Technical, cost, schedule ratings
  - Current status and projections
- Include some of the aforementioned "Things We Can Do"
- Intent is to eliminate surprises, provide risk assessments, and define paths to issue resolutions

## **Profit is Not a 4-Letter Word**

- Stakeholders, including "The Street," are expecting profits ≥ 10%
  - -Technical products carry technical risks
- Healthy munitions producers can make much better partners

# **Acquisition Improvement Suggestion**

- New programs
  - Carry two competitors through a reasonable (i.e., 1 year) demonstration phase
    - Selection based on review of real, demonstrated, and substantiated information
- Existing programs
  - Provide some \$'s to address aforementioned "Things We Can Do"

## Things We Can Do

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